

Title (en)

A method and system for real time pulse processing in ATCRBS/Mode-S transponders

Title (de)

Verfahren und Vorrichtung für die Pulsezeitverarbeitung eines ATCRBS/Mode-S Transponders

Title (fr)

Procédé et dispositif pour le traitement en temps réel des pulses d'un ATCRBS/Mode-S transpondeur

Publication

EP 1783515 A1 20070509 (EN)

Application

EP 06123150 A 20061030

Priority

US 26379405 A 20051031

Abstract (en)

An apparatus (500) for processing pulses in ATCRBS/Mode S interrogations includes an antenna (506, 508) for receiving a radio frequency interrogation signal. The radio frequency interrogation signal is downconverted (510, 511) by a downconverter to an intermediate frequency signal. The intermediate frequency signal is converted to a digitized interrogation signal by an analog-to-digital converter (510, 511). A processing unit (514), coupled to the analog-to-digital converter (510, 511), detects a pulse peak in the digitized interrogation signal using a moving threshold to locate the peak pulse between a first fixed threshold and a second fixed threshold.

IPC 8 full level

G01S 13/76 (2006.01)

CPC (source: EP US)

G01S 7/28 (2013.01 - EP US); **G01S 13/767** (2013.01 - EP US); **G01S 13/782** (2013.01 - EP US)

Citation (applicant)

US 5471509 A 19951128 - WOOD STEVEN L [US], et al

Citation (search report)

- [XY] US 5471509 A 19951128 - WOOD STEVEN L [US], et al
- [YA] US 6788245 B1 20040907 - JOHNSON TIMOTHY L [US]

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1783515 A1 20070509; EP 1783515 B1 20150225; US 2008030393 A1 20080207; US 7352318 B2 20080401

DOCDB simple family (application)

EP 06123150 A 20061030; US 26379405 A 20051031